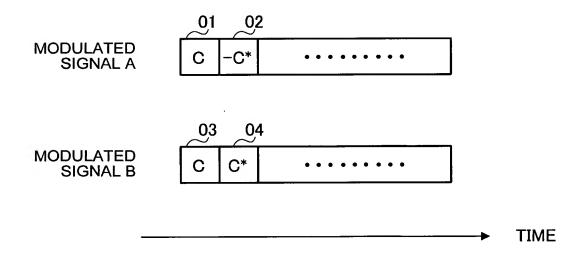


(PRIOR ART) FIG.1



(PRIOR ART) FIG.2

#### **10** RADIO TRANSMITTING APPARATUS

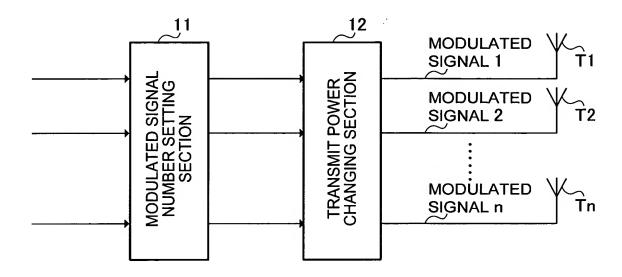


FIG.3

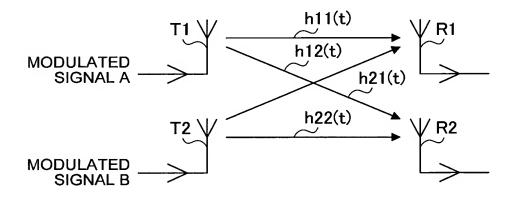
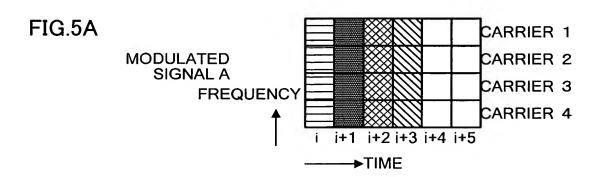
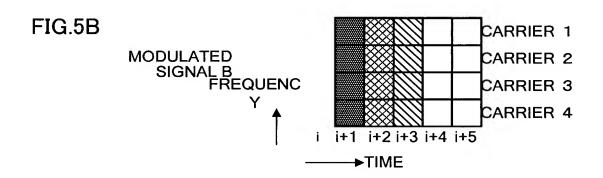
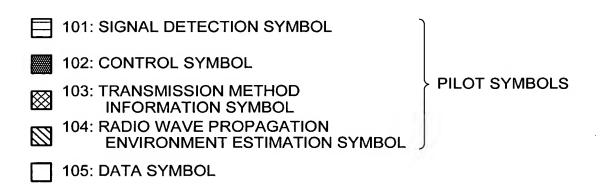


FIG.4









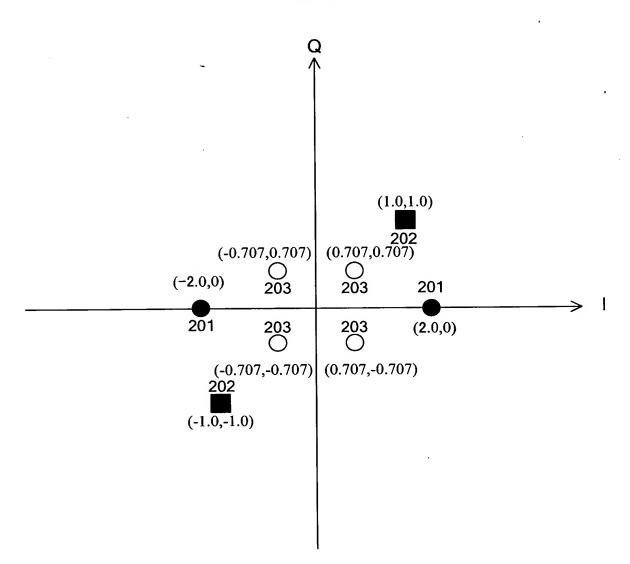


FIG.6

MODULATED SIGNAL A

		CARRIER	RRIER 1	CARRIER	NER 2	CARRIER	ER 3	CARRIER	ER 4
	TIME	I	0		0	I	Q	I	0
FIC 7A	٠-:	2.0	0	0	0	-2.0	0	0	0
		1.0	1.0	-1.0	-1.0	-1.0	-1.0	1.0	1.0

MODULATED SIGNAL B

				_
ER 4	Ò		1.0	-1.0
CARRIER	I		1.0	-1.0
ER 3	δ		-1.0	1.0
CARRIEF	I		-1.0	1.0
ER 2	0		1.0	-1.0
CARRIER	I		1.0	-1.0
ER 1	0		-1.0	1.0
CARRIER			-1.0	1.0
	TIME	ب		= '

FIG 7B

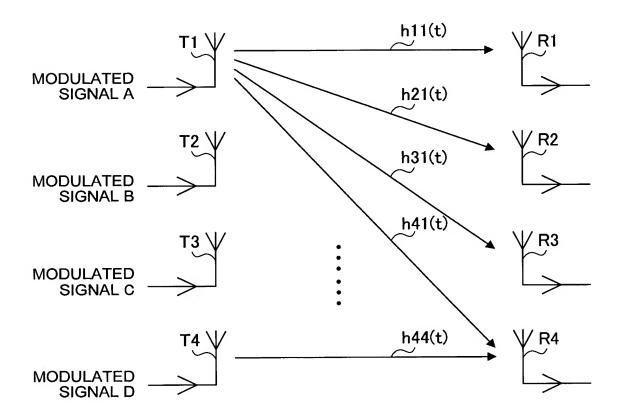
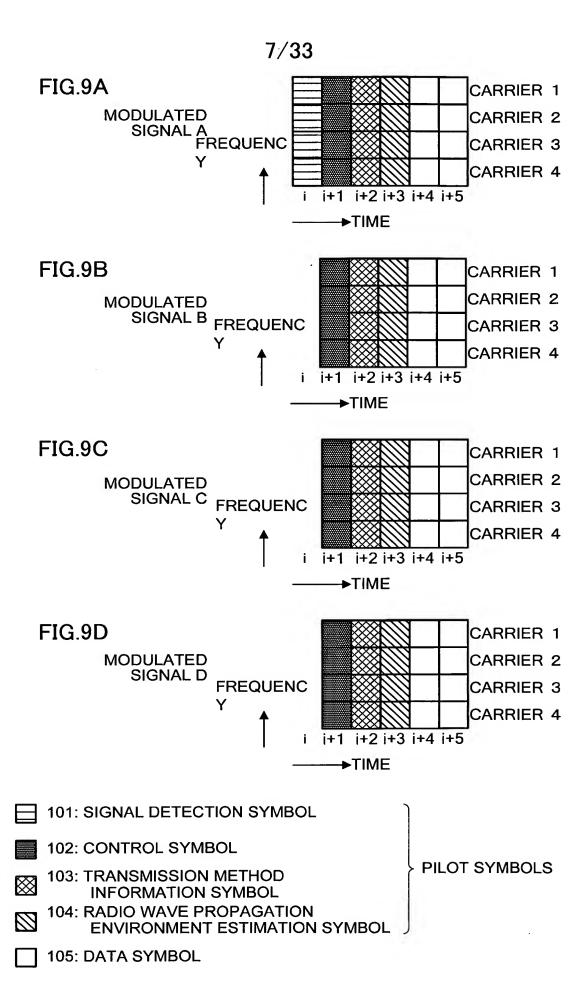


FIG.8



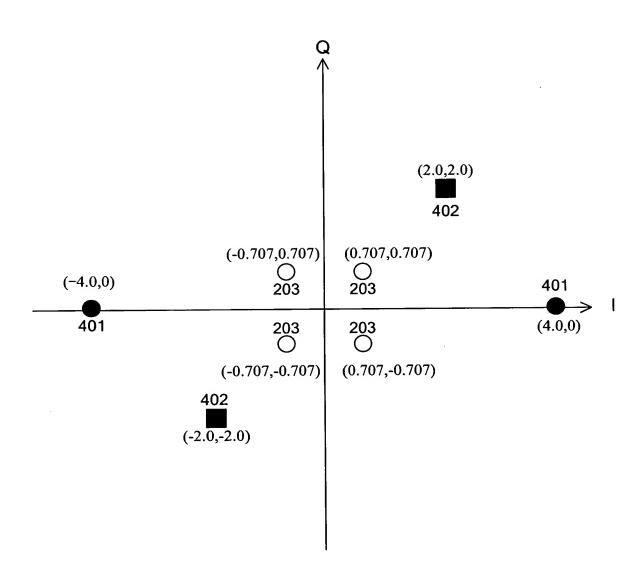
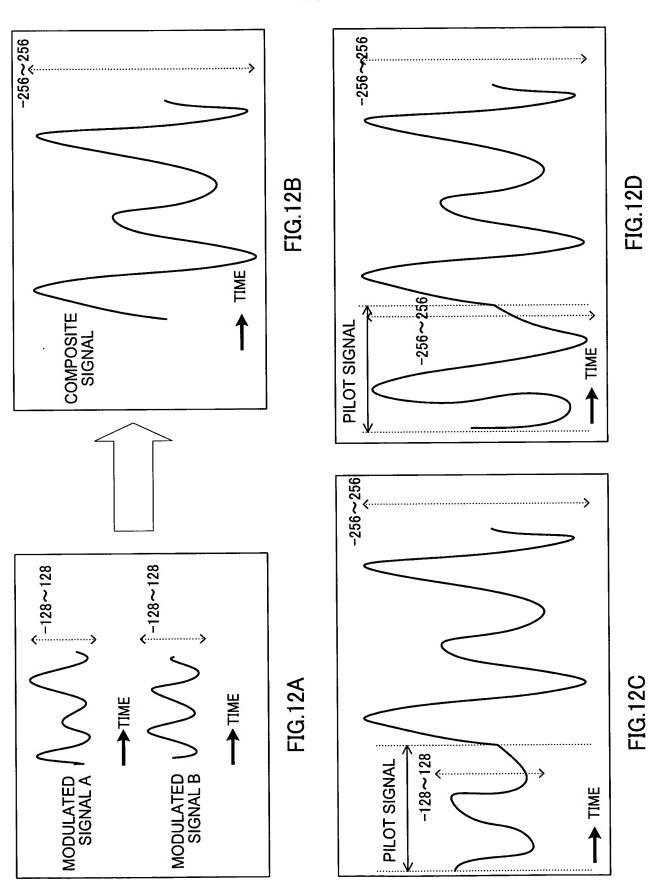
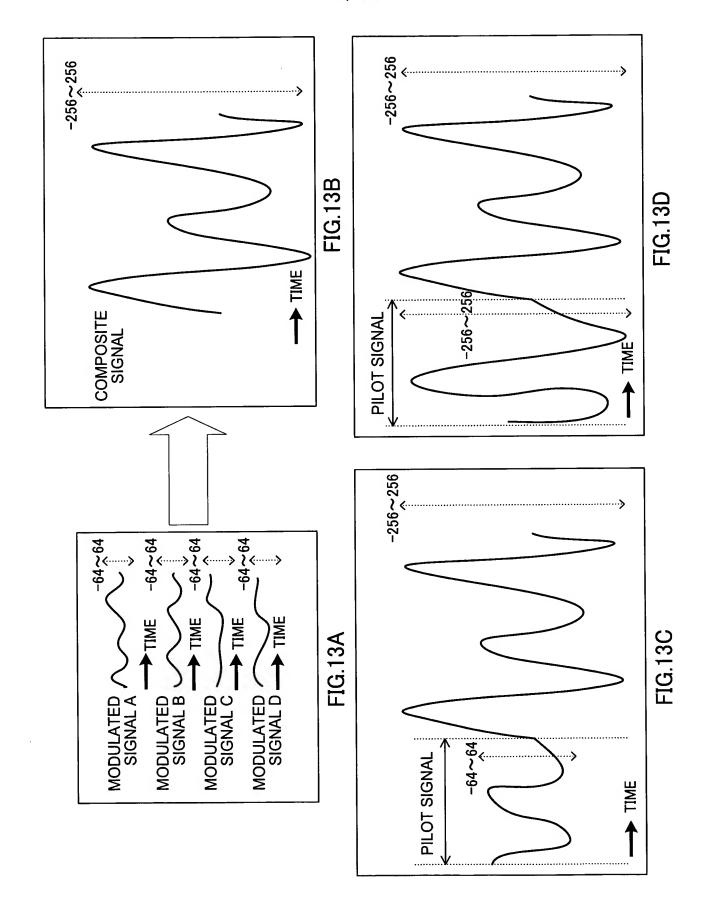
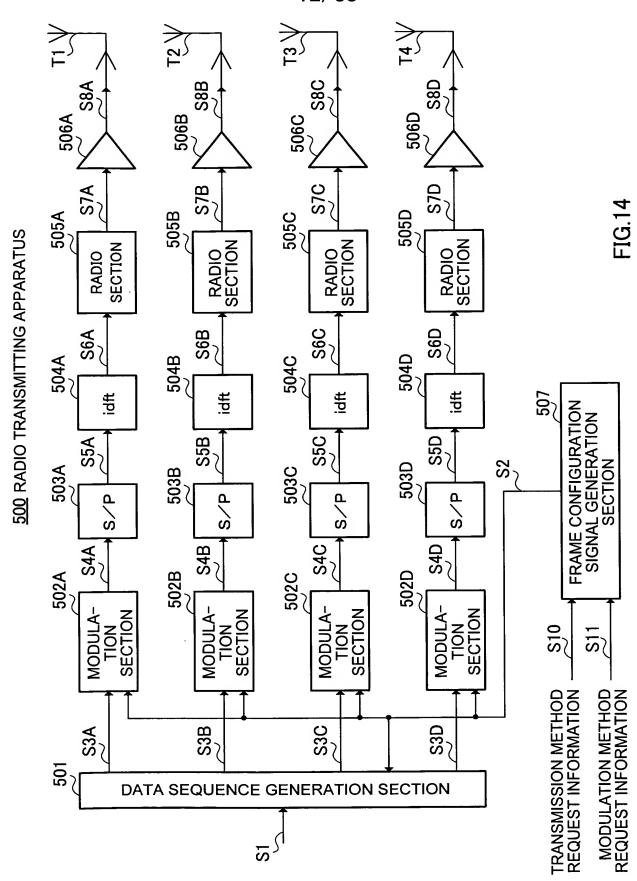


FIG.10

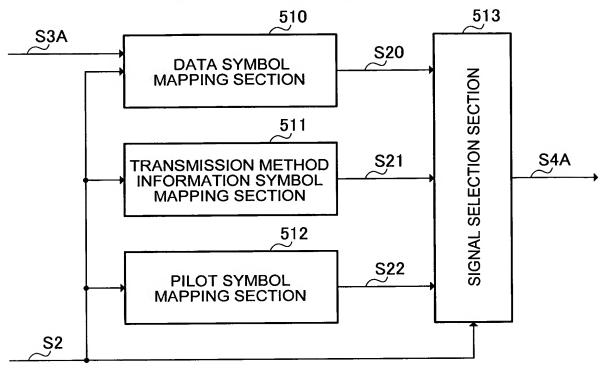
				MODU	MODULATED SIGNAL A	IGNAL A				
	İ	CARE	CARRIER 1	CARF	CARRIER 2	CARRIER 3	ER 3	CARRIER 4	IER 4	
	TIM	Ι	0	I	0	I	0	I	0	
FIG 11A	-	4.0	0	0	0	4.0	0	0	0	
	i+1	2.0	2.0	-2.0	-2.0	-2.0	-2.0	2.0	2.0	
	i+3	-2.0	-2.0	2.0	2.0	2.0	2.0	-2.0	-2.0	
				MODU	LATED S	MODULATED SIGNAL B				
	i	CARF	CARRIER 1	CARR	CARRIER 2	CARRIER 3	IER 3	CARR	CARRIER 4	
	WI J	ı	0	I	0	I	δ	I	ð	
CIC 11D	<b>1</b>									
10.10	i+1	-2.0	-2.0	2.0	2.0	-2.0	-2.0	2.0	2.0	
	i+3	2.0	2.0	-2.0	-2.0	2.0	2.0	-2.0	-2.0	_
				MODU	LATED S	MODULATED SIGNAL C				
	i	CAR	CARRIER 1	CAR	CARRIER 2	CARR	CARRIER 3	CARR	CARRIER 4	
	I IM	П	0	I	ð	I	0	I	0	
FIG 11C	1-		,	,		d	c			
	<u>+</u>	2.0	2.0	-2.0	-2.0	-2.0	0.7-	7.0	7.0	_
	i+3	-2.0	-2.0	2.0	2.0	2.0	2.0	-2.0	-2.0	_
				MODU	LATED S	MODULATED SIGNAL D				
		CAR	CARRIER 1	CARF	CARRIER 2	CARR	CARRIER 3	CARE	CARRIER 4	
	WILL.	I	0	I	0	I	δ	I	0	
	<b>υ</b>									
FIG.11D	1+1	-2.0	-2.0	2.0	2.0	-2.0	-2.0	2.0	2.0	_
	; 1.72	0,0	0.0	0.6	-2 0	20	2.0	-2.0	-2.0	





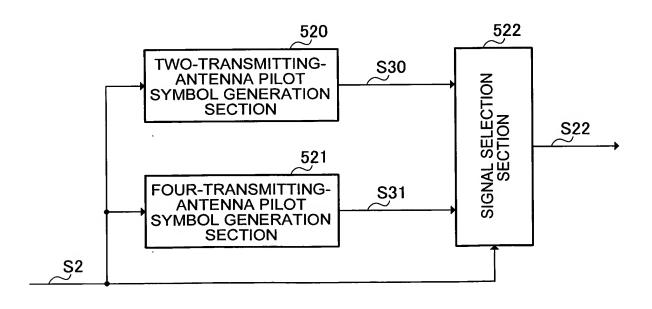


13/33 <u>502A</u> (502B~502D) MODULATION SECTION



**FIG.15** 

### 512 PILOT SYMBOL MAPPING SECTION



**FIG.16** 

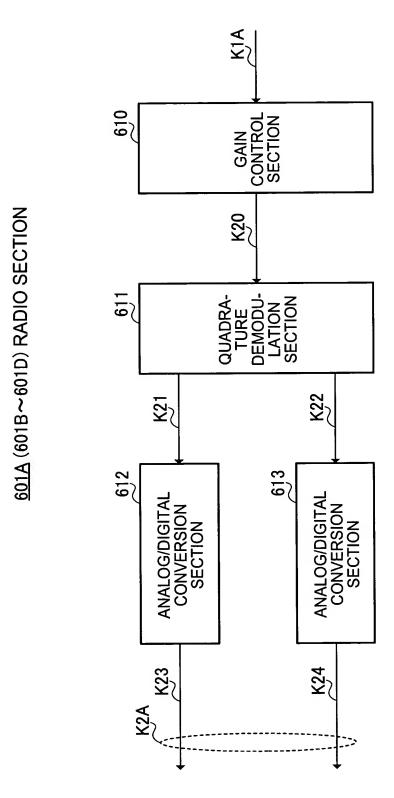
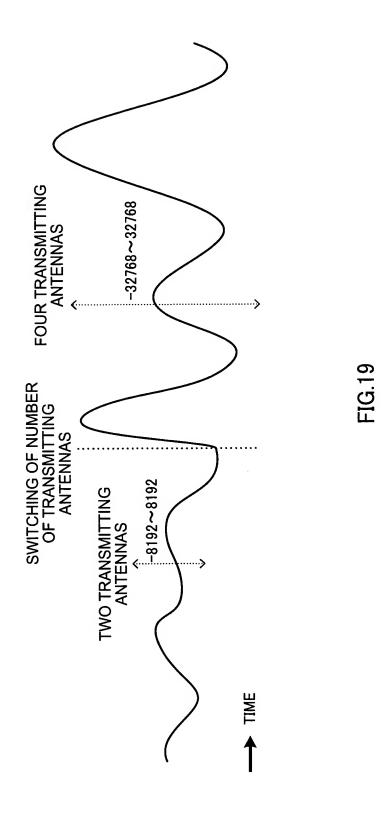
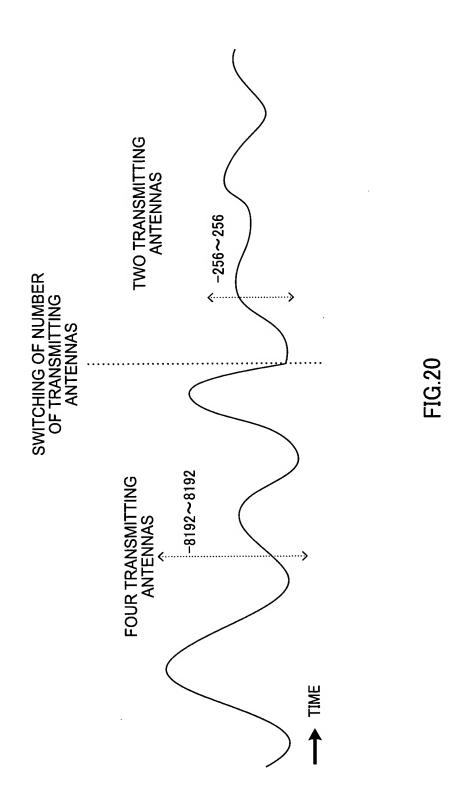


FIG.18





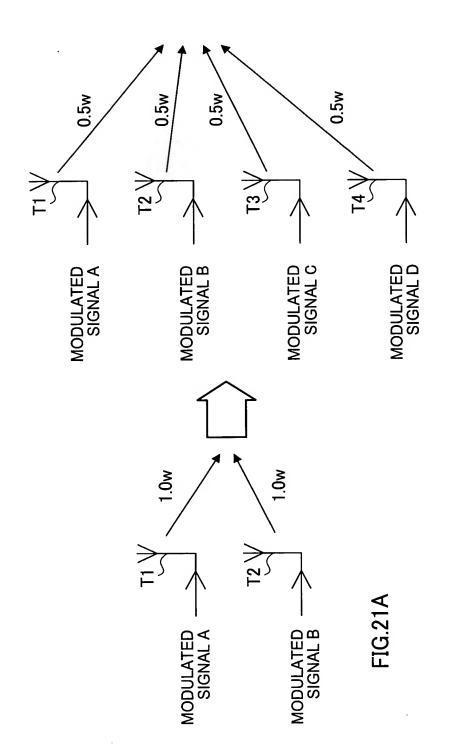
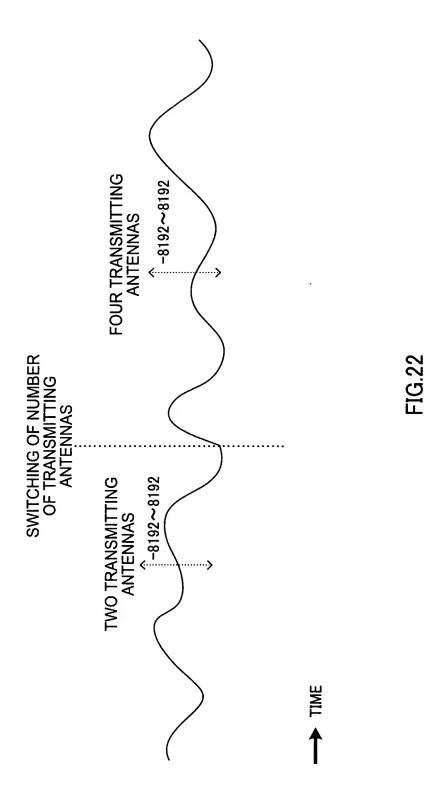


FIG.21B



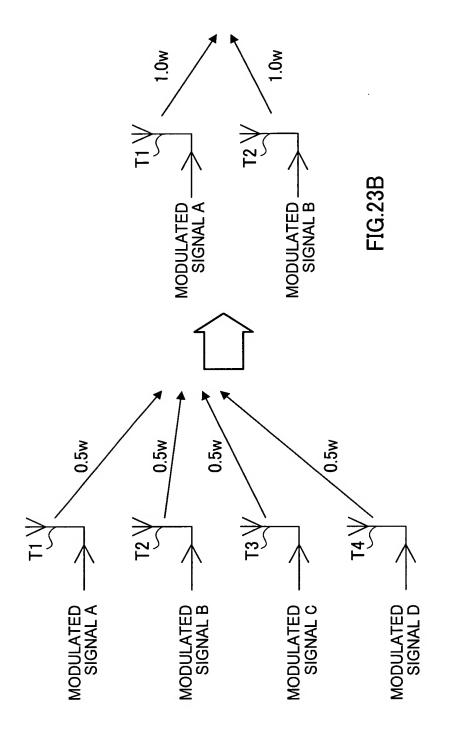


FIG.23A

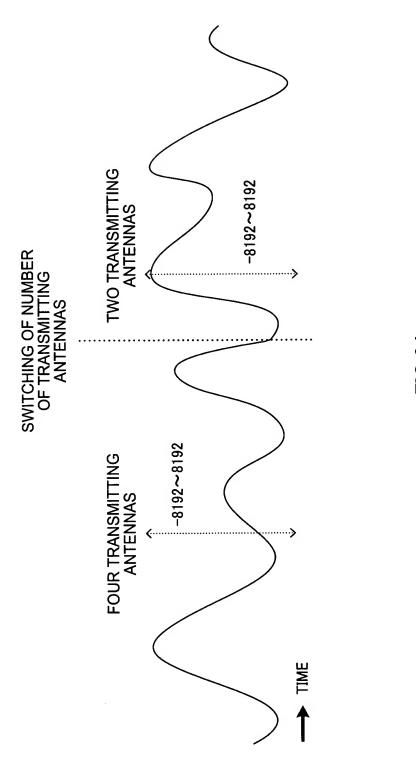


FIG.24

### 22/33

# SWITCHING OF NUMBER OF TRANSMITTING ANTENNAS

	TWO TRANSMITTING ANTENNAS	FOUR TRANSMIT ANTENN	TING	
TRANSMITTING ANTENNA T1	1.00W	0. 5W	0. 75W	1. 00W
TRANSMITTING ANTENNA T2	1.00W	0. 5W	0. 75W	1. 00W
TRANSMITTING ANTENNA T3		0. 5W	0. 75W	1. 00W
TRANSMITTING ANTENNA T4		0. 5W	0. 75W	1. 00W

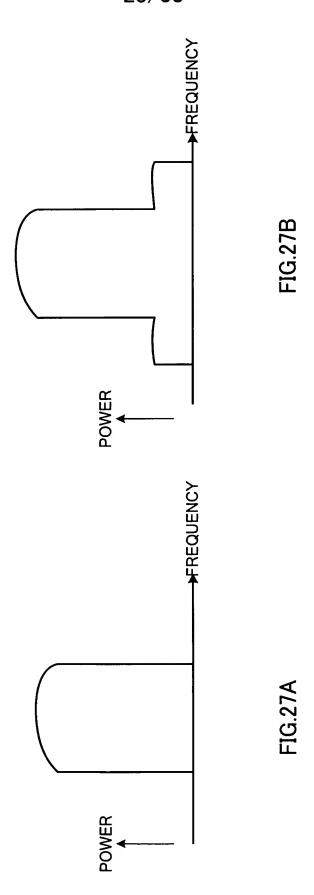
—→ TIME

### **FIG.25**

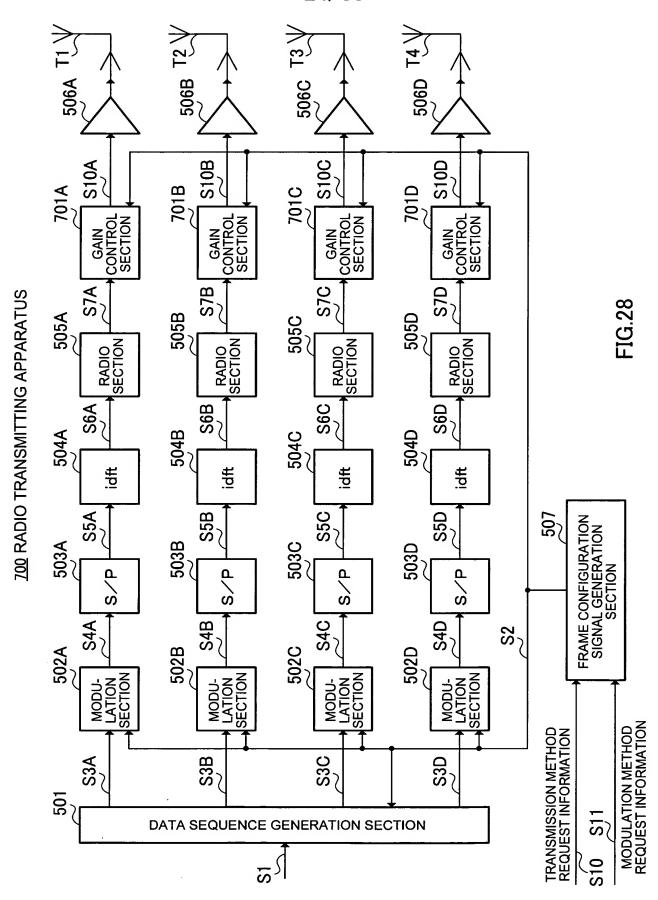
## SWITCHING OF NUMBER OF TRANSMITTING ANTENNAS

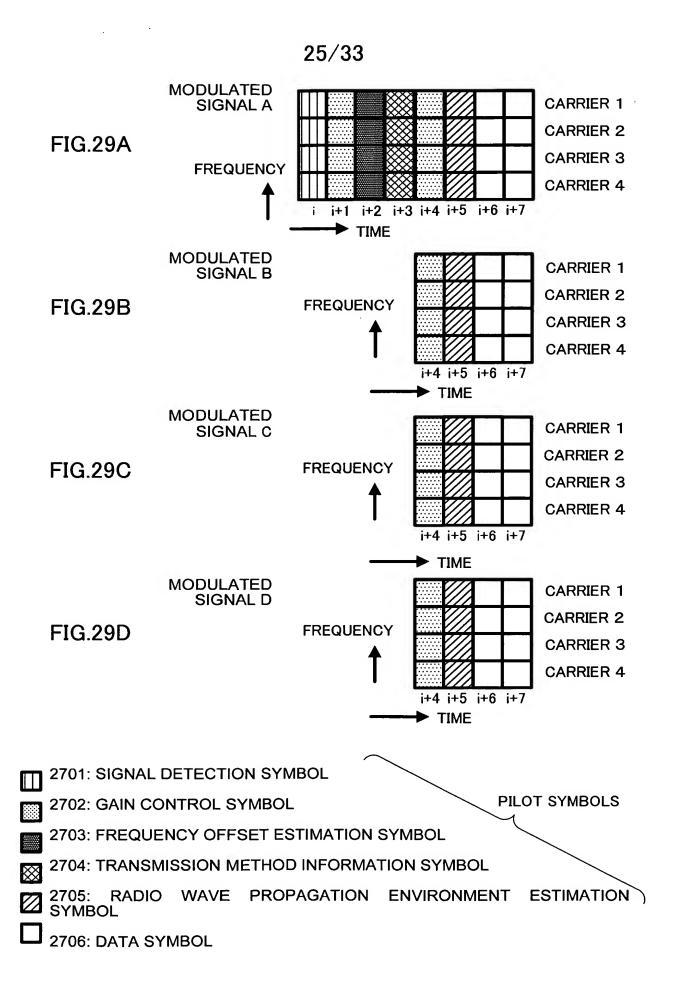
	FOUR TRANSMITTING ANTENNAS	TWC TRANSMI ANTENI	TTING	
TRANSMITTING ANTENNA T1	0. 5W	1. OW	0. 75W	0. 5W
TRANSMITTING ANTENNA T2	0. 5W	1. OW	0. 75W	0. 5W
TRANSMITTING ANTENNA T3	0. 5W			
TRANSMITTING ANTENNA T4	0. 5W			

→ TIME



, ;





. .

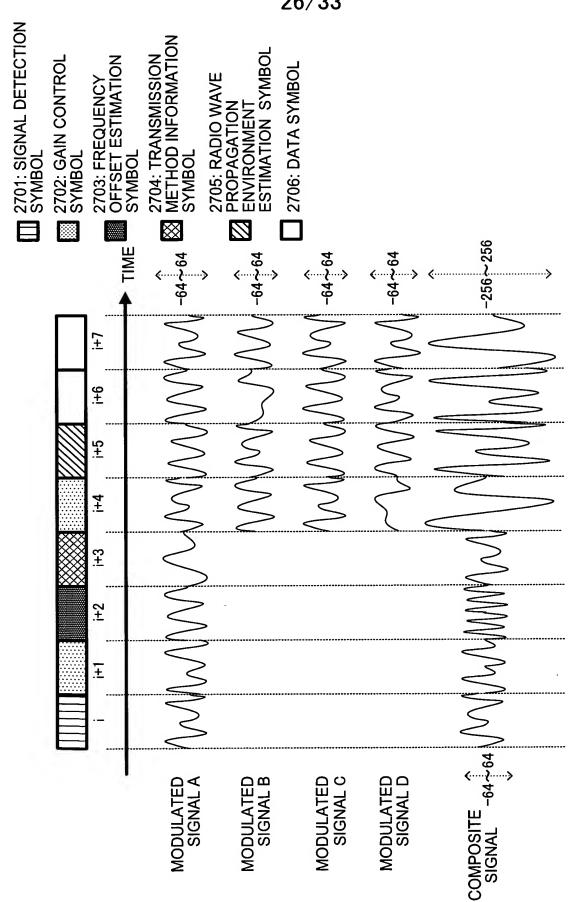
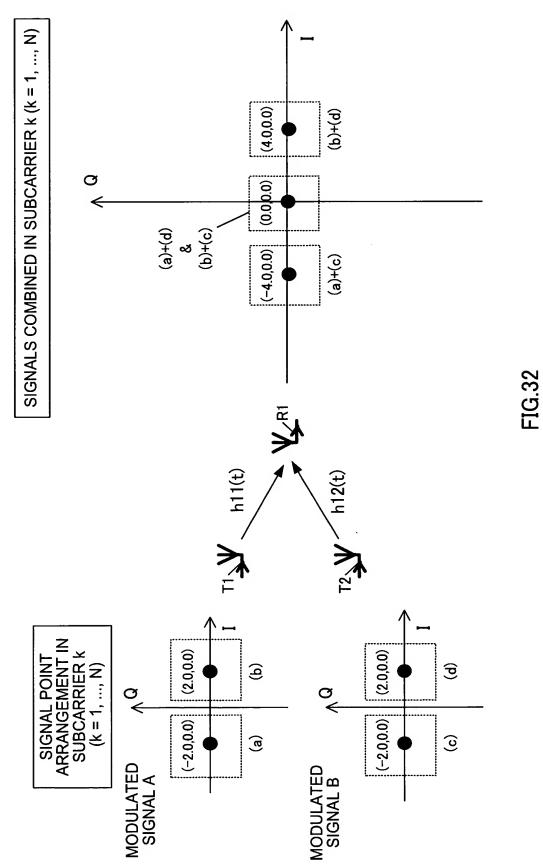


FIG.30

FIG.31



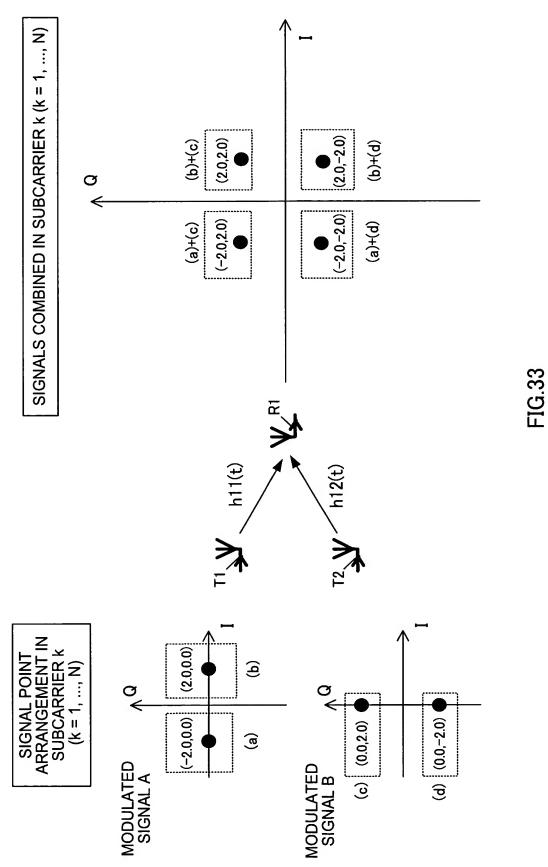


FIG.34

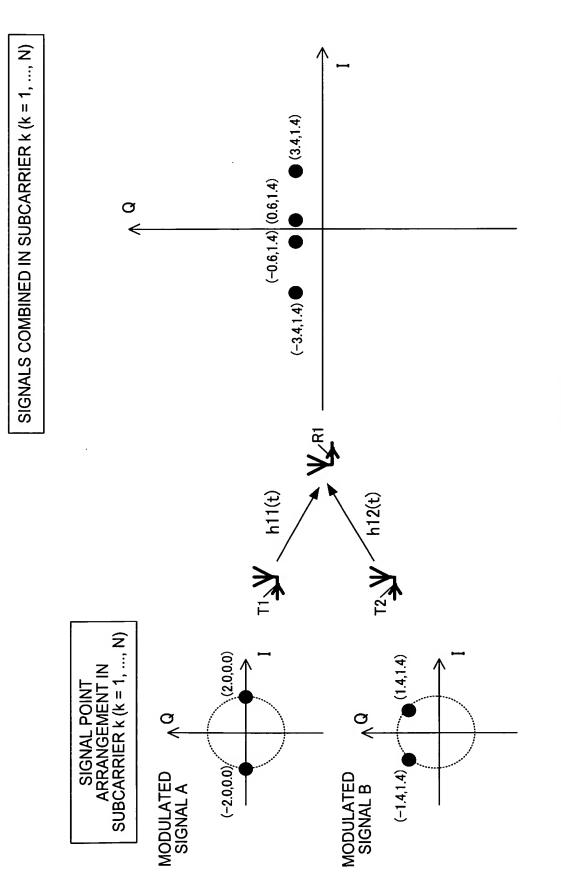


FIG.36

in the second

